

# Department of Defense DIRECTIVE

June 24, 1987 NUMBER 4650.1

ASD(C3I)

SUBJECT: Management • nd Use of the Radio Frequency spectrum

References:

- (a) DoD Directive 4650.1, "Management nd Use of the Radio Frequency Spectrum, " December 13, 1974 (hereby canceled)
- (b) U.S. Department of Commerce, National Telecommunications nd Information Administration, "Manual of Regulations nd Procedures for Federal Radio Frequency Management, " HaY 1986
- (c) DoD Directive 51 00.3S, "Military Communications-Electronics Board, " Hay 6, 1985
- (d) Office of Management nd Budget (OMB) Circular No. A-n, "Preparation and Submission of Budget Estimates, " Paragraph 13-2 (o), May 1986
- (e) Federal Acquisition Regulation, 1984
- (f) DoD Federal Acquisition Regulation Supplement, 1986

#### A. REISSUANCE AND PURPOSE

- 1. This Directive reissues reference (a) to:
  - a. Provide DoD policy.
  - b. Assign responsibility.
- c. Specify procedures for DoD management and use of the radio frequency spectrum.

# B. <u>APPLICABILITY</u>

This Directive • pplies to the Office of the Secretary of Defense (oSD), the Military Departments, the Organization of the Joint Chiefs of Staff (OJCS), the Unified and Specified Commands, the Inspector General of the Department of Def •nse (IG, DoD), the Def •nse Agencies, •nd DoD Field Activities (hereafter referred to collectively •s "DoD Components"). The term "Military Services," •s used herein, refers to the Army, Navy, Air Force, •nd Marine Corps.

#### C. DEFINITIONS

- 1. <u>Communications-Electronics</u>. The specialized field concerned with the use of Olectronic devices Ond systems for the Ocquisition or Occeptance, processing, storage, display, Onalysis, protection, disposition, Ond transfer of information.
- 2. Radio Fraguency Spectrum. The frequencies (or wavelengths) associated with radio wave propagation (3 kilohertz (3 X 10 hertz) to 3,000 gigahertz (3 X 10 hertz) or ewavelength of 100 kilometers to 0.1 millimeter, respectively).

3. Spectrum Management. The function where use of the radio frequency spectrum is controlled to ensure the lectromagnetic compatibility of communications-electronics systems. Requirements for use of the radio frequency spectrum are presented, reviewed, ond, to the degree possible, satisfied for communications-electronics systems being or cquired or brought into use.

# D. POLICY

- 1. The usable radio frequency spectrum is vital to the poport of military operations. Sound engineering and Otiatrative practices hall be applied throughout the Department of Defense to use of fectively and prudently the radio frequency spectrum. Due regard shall be given to the rights of other spectrum users.
- 2. The spectrum management function is part of and 0 ssential to 0 iii-tary planning, research, development, and operations involving community cations—lectronics systems using the radio frequency spectrum.
- 3. Within the Department of Defense, the **spectrum** management function **shall** be **accomplished** level thoroughly familiar with and **immediately** responsive to the requirements of the operating forces and sufficiently close to major policy-making off ices (Service, joint, departmental, Federal, and allied) to facilitate referral of issues requiring consideration by these offices.
- 4. U.S. national and international policies nd procedures pertaining to spectrum management and departmental and joint Service implementing directives for ffectively using radio frequencies shall be disseminated as guidance to DoD Components.

## E. RESPONSIBILITIES

- 1. The <u>Under Secretary of Defense (Acquisition)</u> (USD(A)) is responsible for establishing policy for cquiring systems that use the radio frequency spectrum and for ensuring compliance with radio frequency spectrum supportability procedures.
- 2. The Assistant Secretary of Defense (Command, Control, Communications ond Intelligence) (ASD(C'I)) shall:
- •. Provide overall policy for managing and using the radio frequency spectrum nd for implementing applicable provisions of the "Manual of Regulations nd Procedures for Federal Radio Frequency Management" (reference (b)) within the Department of Defense. Spectrum management shall be accomplished in consonance with such policy and in coordination with applicable DoD Components.
- b. Ensure **DoD** frequency spectrum policy **is** represented **interdepart**-**mentally** and internationally.
- 3. The Organization of the Joint Chiefs of Staff (WCS), in consonance with ASD(C I), shall provide guidance on joint and inter-Service operational military spectrum management matters. Under the Joint Chiefs of Staff (JCS), the Chairman of the Military Communications-Electronics Board (MCEB) is responsible for managing the Frequency Resource Record System (FRRS). The FRRS

is the single consolidated' DoD frequency record-keeping system. It assists DoD frequency ● snagers ● nd Operational users in managing the radio frequency spectrum.

- 4. The <u>Military Communications-Electronics Board</u> (MCEB), in addition to Ond in amplification of the functions and responsibilities ssigned in DoD Directive 5100.35 (reference (c)), shall provide spectrum management support s requested by the DoD Components.
  - 5. The Secretaries of the Military Departments shall:
- a. Provide spectrum management within their respective Military Departments.
- b. Implement pplicable provisions of the "Manual of Regulations and Procedures for Federa 1 Radio Frequency Management" (ref rence (b)), OMB Circular No. A-1 1 (reference (d)), the "Federal Acquisition Regulation" (reference (e)), and the "DoD Federal Acquisition Regulation Supplement" (reference (f)) with respect to spectrum management.
- c. rrowvide members to the Interdepartment Radio Advisory Committee (IRAC) according to reference (b) and other forums as required.
- 6. The <u>Director of the Defense Communications Agency</u> (DCA) shall provide spectrum management for the Defense Communications System in consonance with this Directive.
- 7. The <u>Director of the National Security Agency</u> (NSA) shall provide spectrum management for the NSA mission in consonance with this Directive.

## F. PROCEDURES

- 1. All DoD Components shall:
- a. Obtain radio frequency spectrum guidance for communications electronics systems from the MCEB as all as possible during the concept exploration and demonstration and validation stages of system acquisition.

  MCEB guidance must be obtained before suring contractual obligations for the full-scale development, production, or procurement of those systems. Radio frequency spectrum support requirements shall be sent through the MCEB, for coordination with host nations where this quipment is intended to be deployed, searly in the acquisition as practical. Host-nation coordination must be initiated before contracting for a system's full-scale development.
- b. Participate fully in the FRRS, providing required information and utilizing  ${\tt system}$  outputs.
- 2. Additional procedures for **DoD** management and use of the radio frequency spectrum are published by the MCEB.

# G. EFFECTIVE DATE AND IMPLEMENTATION

This Directive is • ffective immediately. Forward two copies of implementing documents to the Assistant Secretary of Defense (Co-and, Control,
communications • nd Intelligence) within 90 days.

William H. Taft, IV

Deputy Secretary of Defense

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